

October 28, 2009

ECOCYCLET, LLC
DAVID DEL PORTO
448 WARD STREET
NEWTON MA 02459

Re: Description: GRAYWATER REUSE SYSTEM
Manufacturer: ECOCYCLET, LLC
Product Name: ECOCYCLET WATER REUSE SYSTEM FOR A 3-BEDROOM RESIDENCE
Model Number(s): WRS600
Product File No: 20090330

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. This approval is valid until the end of October 2014.

This approval supersedes the approval issued on October 9, 2008 under product file number 20080446.

This approval is contingent upon compliance with the following stipulation(s):

- A plumbing plan must be submitted and approved prior to each proposed installation in accordance with Comm 82.20 (1) (a) 2. A Plumbing Plan Review must be successfully completed prior to each proposed installation. A minimum of four sets of completed plans and specifications, signed by a Wisconsin registered Architect, Designer, Engineer or licensed Master Plumber shall be submitted along with the following specific information:
 - a. A "Plumbing Plan Review Application" (i.e. SBD-6154) and required fee;
 - b. A scaled plot plan;
 - c. A scaled floor plan;
 - d. A drain, waste and vent system (i.e. DWV) isometric drawing for the engineered blackwater/graywater system;
 - e. A non-potable water system isometric drawing;
 - f. A potable water system isometric drawing;
 - g. A maintenance manual addressing all serviceable components or systems;
 - h. A written contingency plan; and
 - i. Water calculation worksheets:
 - 1. The complete non-potable water system; and
 - 2. The complete potable water system
 - j. A copy of this approval letter

For system installations that include irrigation and/or infiltration, the following information must also be provided:

- k. The soil type; and
- l. Infiltration rate

After the plan review process is complete, and the installation is finished, the State Plumbing Consultant assigned to the county in which the installation is located, shall inspect the completed installation. The final installation shall be completed and passed before the system is put into service. Some of the information listed previously may not pertain to a specific installation.

- Monitoring of these systems shall be performed by licensed POWTS Maintainers, Master Plumbers or licensed professional Engineers. The maintenance of these systems may be performed by an unlicensed individual.
- Any wastewater or waste materials (e.g. sludge, scum) withdrawn from these systems must be disposed of in accordance with NR 113.
- In addition to department approved plans, if the final effluent from these systems is discharged below the surface of a soil, then at least one of the following must be true:
 1. There must be a minimum of one foot of separation between the point of infiltration and groundwater; or
 2. The wastewater must contain 0 fecal coliform per 100 ml.
- Any tanks used in this system must be designed to withstand the pressures to which they will be subjected.
- Installation and servicing of these systems must be performed in accordance with the manufacturer's written instructions and this approval letter. A copy of the manufacturer's installation and servicing instructions, and a copy of this approval letter, must be given to the owner of each system and kept on site.
- A permanent tag or label must be affixed to these experimental systems in a location that is visible after installation is complete. The tag or label must display the following minimum information:
 1. The complete name and mailing address of the manufacturer;
 2. The telephone number of the manufacturer (i.e. Environmental Plumbing Solutions, Inc.);
 3. The model number of the experimental system
- Samples of the treated graywater shall be collected biannually and analyzed for the following specific parameters:
 1. Fecal coliform (not detected);
 2. BOD5 (≤ 10 mg/l);
 3. pH (6-9);
 4. total suspended solids (≤ 5 mg/l)
- A copy of the stamped and approved plan for a specific installation site, along with a copy of this approval letter, must be submitted to the Plumbing Consultant of authority within the district in which the installation will occur prior to the Plumbing Consultant's final inspection, prior to system start-up. To determine the proper Plumbing Consultant to contact for a given installation site, first, determine the county of the proposed installation. Then access to following web site:

<http://commerce.wi.gov/SB/SB-PlumbingConsultantsMap.html>

Use the map to determine the district number that the pertinent county lies within. Then determine the Plumbing Consultant responsible for that district. The contact information for the Consultant is given at the bottom of the page.

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The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Glen W. Schlueter
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
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GWS:gws